### Declaration and Power of Attorney For Patent Application

#### 特許出願宣言書及び委任状

#### Japanese Language Declaration

日本	語宣言書
下記の氏名の発明者として、私は以下の通り宣言します。	As a below named inventor, I hereby declare that:
私の住所、私書箱、国籍は下記の私の氏名の後に記載された 通りです。	My residence, post office address and citizenship are as stated next to my name.
下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者(下記の氏名が一つの場合)もしくは最初かつ共同発明者であると(下記の名称が複数の場合)信じています。	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
	DIRECT-CONVERSION TRANSMITTING CIRCUIT AND
	INTEGRATED TRANSMITTING/RECEIVING CIRCUIT
上記発明の明細書(下記の欄で×印がついていない場合は、本書に添付)は、	The specification of which is attached hereto unless the following box is checked:
月日に提出され、米国出願番号または特許協定条約 国際出願番号をとし、 (該当する場合)に訂正されました。	was filed on as PCT International Application Number and
	was filed on
私は、特許請求範囲を含む上記訂正後の明細書を検討し、内 容を理解していることをここに表明します。	as United States Application Number and was amended on (if applicable).
私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務がある	I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.
ことを認めます。	I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Page 1 of 5

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# Japanese Language Declaration (日本語宣言書)

私は、米国法典第35編119条 (a) - (d) 項又は365条 (b) 項に基き下記の、米国以外の国の少なくとも一カ国を指定している特許協力条約365 (a) 項に基ずく国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示している。

Prior Foreign Application(s)
外国での先行出願
0127422.4 United Kingdom
(Number) (Country)
(番号) (国名)

(Number) (Country)
(番号) (国名)

私は、第35編米国法典119条 (e) 項に基いて下記の米国 特許出願規定に記載された権利をここに主張いたします。

(Application No.) (Filing Date) (出願番号) (出願日)

私は、下記の米国法典第35編120条に基いて下記の米国特許出願に記載された権利、又は米国を指定している特許協力条約365条 (c) に基ずく権利をここに主張します。また、本出願の各請求範囲の内容が米国法典第35編112条第1項又は特許協力条約で規定された方法で先行する米国特許出願に開示されていない限り、その先行米国出願書提出日以降で本出願書の日本国内または特許協力条約国際提出日までの期間中に入手された、連邦規則法典第37編1条56項で定義された特許資格の有無に関する重要な情報について開示義務があることを認識しています。

(Application No.) (Filing Date) (出願番号) (出願日)

(Application No.) (Filing Date) (出願番号) (出願日)

私は、私自身の知識に基ずいて本宣言書中で私が行なう表明 が真実であり、かつ私の入手した情報と私の信じるところに基 ずく表明が全て真実であると信じていること、さらに故意にな された虚偽の表明及びそれと同等の行為は米国法典第18編 第1001条に基ずき、罰金または拘禁、もしくはその両方に より処罰されること、そしてそのような故意による虚偽の声明 を行なえば、出願した、又は既に許可された特許の有効性が失 われることを認識し、よってここに上記のごとく宣誓を致しま す。 I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed 優先権主張なし

15 / 11 / 2001
(Day/Month/Year Filed)
(出願年月日)

(Day/Month/Year Filed)
(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.) (Filing Date) (出願番号) (出願日)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of application.

(Status: Patented, Pending, Abandoned) (現況:特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned) (現況:特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

### Japanese Language Declaration

(日本語宣言書)

委任状: 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。(弁護士、または代理人の氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

Donald R. Antonelli, Reg. No. 20,296; David T. Terry, Reg. No. 20,178; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973 and Carl I. Brundidge, Reg. No. 29,621

書類送付先

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Arlington, Virginia 22209

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Direct Telephone Calls to: (name and telephone number)

Telephone: (703) 312-6600 Fax: (703) 312-6666

唯一または第一発明者		Full name of sole or first inventor Satoshi TANAKA
発明者の署名	日付	Inventor's signature Date 12/12/2001
住所		Residence
国籍		Kokubunji, Japan
国档		Citizenship
		Japan
私書箱		Post Office Address
		c/o Hitachi, Ltd., Intellectual Property Group
		New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
		Chiyoda-ku, Tokyo 100-8220, Japan

(第二以降の共同発明者についても同様に記載し、署名をする こと)

(Supply similar information and signature for second and subsequent joint inventors.)

Approved for use through 9/30/98. OMB 0651-0032
Patent and Trademark Office; U.S. DEPARTMETNT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

第二共同発明者	Full name of second joint inventor, if any
第二共同発明者の署名 日付	Masamichi TANABE
3/- 스타/	Second inventor's signature Date  Musemichi Janube 12/20/200/
住所	Residence / Residence
国籍	Tokyo, Japan
Process of the	Citizenship Japan
私書箱	
14 6 7 4	Post Office Address
	C/o Hitachi Device Engineering Co., Ltd.
第三共同発明者	Hayano, Mobara-shi, Chiba, Japan
N>(1-1)(1-31-E	Full name of third joint inventor, if any
第三共同発明者の署名 日付	Yasuyuki OKUMA
<b>ポー</b> ス門元列省の省石 ロ刊	Third inventor's signature  Ye savuki Okuba
住所	TO THE MICE
LL//I	Residence
国籍	Kokubunji, Japan
四稍	Citizenship
I) \$\dagger{m}\$	Japan
私書箱	Post Office Address
	C/o Hitachi, Ltd., Intellectual Property Group
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
Mr. ma. 11. km 576 mm - by	Chiyoda-ku, Tokyo 100-8220, Japan
第四共同発明者	Full name of fourth joint inventor, if any 1.1 13/2001
Mercan II promoved to a mental and an annual an annual and an annual an annual and an annual and an annual and an annual and an annual an an	Taizo YAMAWAKI 12/13/ 200/
第四共同発明者の署名    日付	Fourth inventor's signature Date
N.→	Tat 20 Yamawaki 12/13/2001
住所	Residence
Africa Control of the	Tokyo, Japan
<b>国籍</b>	Citizenship
Tr attacker	Japan
私書箱	Post Office Address
	C/o Hitachi, Ltd., Intellectual Property Group
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
**************************************	Chiyoda-ku, Tokyo 100-8220, Japan
第五共同発明者	Full name of fifth joint inventor, if any KY. 12/14/2001
War II Promote to a rest	Koichi YAHAGI 12/14/2001
第五共同発明者の署名 日付	Fifth inventor's signature Date
N-7*	Kajchi Yahagi 12/14/200/
主所	Residence
er kaba	Takasaki, Japan
国籍	Citizenship
1 day have	Japan
<b>公書箱</b>	Post Office Address
	C/o Hitachi, Ltd., Intellectual Property Group
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
	Chiyoda-ku, Tokyo 100-8220, Japan
第六以降の共同発明者についても同様に記載し、署名をする	(Cumply circular information
	(Supply similar information and signature for sixth and
と)	subsequent joint inventors.)

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第六共同発明者		Full name of sixth joint inventor, if any Hiroaki MATSUI
第六共同発明者の署名 第六共同発明者の署名	n #	
<b>弗八共内</b> 死明有の者石	日付	Sixth inventor's signature Date Hiroaki Matsui 12/14/2001
 住所		Hiroaki Matsui 12/14/2001 Residence
注別		Takasaki, Japan
国链		Citizenship
国籍		
4) 争放		Japan Post Office Address
私書箱		, , , , , , , , , , , , , , , , , , , ,
		C/o Hitachi, Ltd., Intellectual Property Group
		New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
Mr. I. LL par 50 pur - Mr.		Chiyoda-ku, Tokyo 100-8220, Japan
第七共同発明者		Full name of seventh joint inventor, if any
	<del></del>	Bob HENSHAW
第七共同発明者の署名	日付	Seventh inventor's signature Date
住所	<del></del>	Residence
		Cambridge, England
国籍		Citizenship
		United Kingdom
私書箱		Post Office Address
		C/o TTPCom Limited
		Melbourn Science Park, Cambridge Road Melbourn, Royston
		Hertfordshire, SG8 6EE, UNITED KINGDOM
第八共同発明者		Full name of eighth joint inventor, if any
第八共同発明者の署名	日付	Eighth inventor's signature Date
住所		Residence
国籍		Citizenship
私書箱		Post Office Address
第九共同発明者		Full name of ninth joint inventor, if any
第九共同発明者の署名	日付	Ninth inventor's signature Date
住所		Residence
国籍		Citizenship
私書箱		Post Office Address

(第十以降の共同発明者についても同様に記載し、署名をする こと) (Supply similar information and signature for tenth and subsequent joint inventors.)

### Declaration and Power of Attorney For Patent Application

#### 特許出願宣言書及び委任状

#### Japanese Language Declaration

#### 日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。 私の住所、私書箱、国籍は下記の私の氏名の後に記載された 通りです。	As a below named inventor, I hereby declare that:  My residence, post office address and citizenship are as stated next to my name.
下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者(下記の氏名が一つの場合)もしくは最初かつ共同発明者であると(下記の名称が複数の場合)信じています。	I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled
	DIRECT-CONVERSION TRANSMITTING CIRCUIT AND INTEGRATED TRANSMITTING/RECEIVING CIRCUIT
上記発明の明細書(下記の欄で×印がついていない場合は、 本書に添付)は、	The specification of which is attached hereto unless the following box is checked:
□ _月_日に提出され、米国出願番号または特許協定条約 国際出願番号をとし、 (該当する場合)に訂正されました。	was filed on as PCT International Application Number and was filed on as United States Application Number and was amended on
私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。	(if applicable).  I hereby state that I have reviewed and understand the contents
私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。	of the above identified specification, including the claims, as amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Page 1 of 5

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内をマークすることで、示している。

#### Prior Foreign Application(s)

外国での先行出願

0127422.4	United Kingdom
(Number)	(Country)
(番号)	(国名)
(Number)	(Country)
(番号)	(国名)

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(Application No.)	(Filing Date)
(出願番号)	(出願日)

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(Application No.)	(Filing Date)	
(出願番号)	(出願日)	
(Application No.)	(Filing Date)	
(出願番号)	(出願日)	

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	Priority Not Claim 優先権主張なし
15 / 11 / 2001 (Day/Month/Year Filed) (出願年月日)	
(Day/Month/Year Filed) (出願年月日)	

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Filing Date) (Application No.) (出願番号) (出願日)

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> (Status: Patented, Pending, Abandoned) (現況:特許許可済、係属中、放棄済) (Status: Patented, Pending, Abandoned)

(現況:特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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## Japanese Language Declaration (日本語宣言書)

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委任状: 私は下記の発明者として、本出願に関する一切の手続きを米特許商標局に対して遂行する弁理士または代理人として、下記の者を指名いたします。(弁護士、または代理人の氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby

appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (list name and registration number)

Donald R. Antonelli, Reg. No. 20,296; David T. Terry, Reg. No. 20,178; Melvin Kraus, Reg. No. 22,466; William I. Solomon, Reg. No. 28,565; Gregory E. Montone, Reg. No. 28,141; Ronald J. Shore, Reg. No. 28,577; Donald E. Stout, Reg. No. 26,422; Alan E. Schiavelli, Reg. No. 32,087; James N. Dresser, Reg. No. 22,973 and Carl I. Brundidge, Reg. No. 29,621

書類送付先

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唯一または第一発明者		Full name of sole or first inventor Satoshi TANAKA	
発明者の署名	日付	Inventor's signature Date	
住所		Residence	
		Kokubunji, Japan	
国籍		Citizenship	
		Japan	
私書箱	Post Office Address		
	c/o Hitachi, Ltd., Intellectual Property Group		
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,		
		Chiyoda-ku, Tokyo 100-8220, Japan	

(第二以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for second and subsequent joint inventors.)

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

第二共同発明者	Full name of second joint inventor, if any Masamichi TANABE
第二共同発明者の署名 日付	Second inventor's signature Date
生所	Residence
	Tokyo, Japan
<b>国籍</b>	Citizenship
	Japan
私書箱	Post Office Address
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	Hayano, Mobara-shi, Chiba, Japan
第三共同発明者	Full name of third joint inventor, if any
	Yasuyuki OKUMA
第三共同発明者の署名 日付	Third inventor's signature Date
主所	Residence
	Kokubunji, Japan
国籍	Citizenship
	Japan
私書箱	Post Office Address
	C/o Hitachi, Ltd., Intellectual Property Group
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
	Chiyoda-ku, Tokyo 100-8220, Japan
第四共同発明者	Full name of fourth joint inventor, if any
	Taizo YAMAWAKI
第四共同発明者の署名 日付	Fourth inventor's signature Date
主所	Residence
	Tokyo, Japan
<b>国籍</b>	Citizenship
	Japan
以書箱	Post Office Address
	C/o Hitachi, Ltd., Intellectual Property Group
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
to the state of th	Chiyoda-ku, Tokyo 100-8220, Japan
<b>第五共同発明者</b>	Full name of fifth joint inventor, if any
**************************************	Koichi YAHAGI
第五共同発明者の署名 日付	Fifth inventor's signature Date
主所	Residence
	Takasaki, Japan
国籍	Citizenship
	Japan
以書箱	Post Office Address
	C/o Hitachi, Ltd., Intellectual Property Group
	New Marunouchi Bldg. 5-1, Marunouchi 1-chome,
	Chiyoda-ku, Tokyo 100-8220, Japan
(第六以降の共同発明者についても同様に記載し、署名をする	(Supply similar information and signature for sixth and
٤)	subsequent joint inventors.)
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第九共同発明者	Full name of ninth joint inventor, if any
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(第十以降の共同発明者についても同様に記載し、署名 と)	をする (Supply similar information and signature for tenth and subsequent joint inventors.)